INDEX OF AUTHORS AND PAPERS

Albano, A.M. and Bedeaux, D., Non-equilibrium electro-thermodynamics of polarizable multicomponent fluids with an interface **147A** (1987) 407

Bedeaux, D., see Albano, A.M. **147A** (1987) 407
Beenakker, C.W.J., Two-dimensional soap froths and polycrystalline networks: Why are large cells many-sided? **147A** (1987) 256
Blicharska, B., Theoretical description of the methyl group relaxation in liquids **147A** (1988) 601
Blöte, H.W.J., see Dudek, M.R. **147A** (1987) 344
Bobbert, P.A. and Vlieger, J., The polarizability of a spheroidal particle on a substrate **147A** (1987) 115
Boots, H.M.J., Inhomogeneous network formation studied by the kinetic gelation model **147A** (1987) 90
Brouwer, H.H. and Schram, P.P.J.M., Electrical conductivity of a fully ionized plasma at high frequencies **147A** (1988) 567
Brown, D.B., see Kapral, R. **147A** (1987) 77

Campa, A., see Cohen, E.G.D. **147A** (1987) 142
Capel, H.W., see Van der Weele, J.P. **147A** (1987) 297
Capel, H.W., see Van der Weele, J.P. **147A** (1988) 499
Chung, D.S., see Mazur, E. **147A** (1987) 387
Cohen, E.G.D., De Schepper, I.M. and Campa, A., Analogy between light scattering of colloidal suspensions and neutron scattering of simple fluids **147A** (1987) 142

De Gennes, P.G., see Joanny, J.-F. **147A** (1987) 238
De Groot, S.R., On the transport coefficients of systems containing neutrinos **147A** (1987) 1
De Schepper, I.M., see Cohen, E.G.D. **147A** (1987) 142
Dixon, J.M., see Tuszyński, J.A. **147A** (1988) 544
Dixon, J.M., see Tuszyński, J.A. **147A** (1988) 555
Dudek, M.R., Van Leeuwen, J.M.J. and Blöte, H.W.J., Convergence of finite size scaling analysis: Weak size dependence of renormalization transformations **147A** (1987) 3[illegible]
Dufty, J.W., see Ernst, M.H. **147A** (1987) [illegible]

Ernst, M.H., Van Velzen, G.A. and Dufty, J.W., Long time dynamics close to a percolation threshold **147A** (1987) 268

Felderhof, B.U., Brownian motion and creeping flow on the Smoluchowski time scale **147A** (1987) 203
Felderhof, B.U., The contribution of Brownian motion to the viscosity of suspensions of spherical particles **147A** (1988) 533

Gunther, L., see Simanjuntak, H. **147A** (1988) 487

Hunt, K.L.C., Hunt, P.M. and Ross, J., Dissipation in steady states of chemical systems and deviations from minimum entropy production **147A** (1987) 48

INDEX OF AUTHORS AND PAPERS

Albano, A.M. and Bedeaux, D., Non-equilibrium electro-thermodynamics of polarizable multicomponent fluids with an interface **147A** (1987) 407

Bedeaux, D., see Albano, A.M. **147A** (1987) 407
Beenakker, C.W.J., Two-dimensional soap froths and polycrystalline networks: Why are large cells many-sided? **147A** (1987) 256
Blicharska, B., Theoretical description of the methyl group relaxation in liquids **147A** (1988) 601
Blöte, H.W.J., see Dudek, M.R. **147A** (1987) 344
Bobbert, P.A. and Vlieger, J., The polarizability of a spheroidal particle on a substrate **147A** (1987) 115
Boots, H.M.J., Inhomogeneous network formation studied by the kinetic gelation model **147A** (1987) 90
Brouwer, H.H. and Schram, P.P.J.M., Electrical conductivity of a fully ionized plasma at high frequencies **147A** (1988) 567
Brown, D.B., see Kapral, R. **147A** (1987) 77

Campa, A., see Cohen, E.G.D. **147A** (1987) 142
Capel, H.W., see Van der Weele, J.P. **147A** (1987) 297
Capel, H.W., see Van der Weele, J.P. **147A** (1988) 499
Chung, D.S., see Mazur, E. **147A** (1987) 387
Cohen, E.G.D., De Schepper, I.M. and Campa, A., Analogy between light scattering of colloidal suspensions and neutron scattering of simple fluids **147A** (1987) 142

De Gennes, P.G., see Joanny, J.-F. **147A** (1987) 238
De Groot, S.R., On the transport coefficients of systems containing neutrinos **147A** (1987) 1
De Schepper, I.M., see Cohen, E.G.D. **147A** (1987) 142
Dixon, J.M., see Tuszyński, J.A. **147A** (1988) 544
Dixon, J.M., see Tuszyński, J.A. **147A** (1988) 555
Dudek, M.R., Van Leeuwen, J.M.J. and Blöte, H.W.J., Convergence of finite size scaling analysis: Weak size dependence of renormalization transformations **147A** (1987) 3[illegible]
Dufty, J.W., see Ernst, M.H. **147A** (1987) [illegible]

Ernst, M.H., Van Velzen, G.A. and Dufty, J.W., Long time dynamics close to a percolation threshold **147A** (1987) 268

Felderhof, B.U., Brownian motion and creeping flow on the Smoluchowski time scale **147A** (1987) 203
Felderhof, B.U., The contribution of Brownian motion to the viscosity of suspensions of spherical particles **147A** (1988) 533

Gunther, L., see Simanjuntak, H. **147A** (1988) 487

Hunt, K.L.C., Hunt, P.M. and Ross, J., Dissipation in steady states of chemical systems and deviations from minimum entropy production **147A** (1987) 48

Hunt, P.M., see Hunt, K.L.C. **147A** (1987) 48

Joanny, J.-F. and De Gennes, P.G., Bursting of a soap film in a viscous environment **147A** (1987) 238

Kapral, R., Oppo, G.-L. and Brown, D.B., Phase separation and growth in a two-variable discrete model **147A** (1987) 77
Kasteleyn, P.W., On two types of obstructed random walks **147A** (1987) 315
Keizer, J. and Peacock-Lopez, E., Energy transport effects on rapid bimolecular chemical reactions **147A** (1987) 61

Mandel, M., Some remarks on the dynamics of charged macromolecules in solution **147A** (1987) 99
Mazur, E. and Chung, D.S., Light scattering from the liquid–vapor interface **147A** (1987) 387

Nieuwoudt, J.C. and Sengers, J.V., Frequency dependence of transport properties of fluids near the critical point **147A** (1987) 368
Nozières, P., A local coupling between sedimentation and convection: application to the Beenakker–Mazur effect **147A** (1987) 219

Oppenheim, I. and Romero-Rochin, V., Quantum Brownian motion **147A** (1987) 184
Oppo, G.-L., see Kapral, R. **147A** (1987) 77

Peacock-Lopez, E., see Keizer, J. **147A** (1987) 61
Pérez-Madrid, A. and Rubi, J.M., Light scattering from a suspension in a fluid with spin **147A** (1987) 152
Petrosky, T.Y., see Prigogine, I. **147A** (1987) 33
Petrosky, T.Y. and Prigogine, I., Poincaré's theorem and unitary transformations for classical and quantum systems **147A** (1988) 439
Petrosky, T.Y., see Prigogine, I. **147A** (1988) 461
Post, T., see Van der Weele, J.P. **147A** (1988) 499
Prigogine, I. and Petrosky, T.Y., Intrinsic irreversibility in quantum theory **147A** (1987) 33
Prigogine, I., see Petrosky, T.Y. **147A** (1988) 439
Prigogine, I. and Petrosky, T.Y., An alternative to quantum theory **147A** (1988) 461

Rajagopal, A.K. and Teitler, S., Particle occupation factors without large number approximations **147A** (1988) 627
Romero-Rochin, V., see Oppenheim, I. **147A** (1987) 184
Ross, J., see Hunt, K.L.C. **147A** (1987) 48
Rubi, J.M., see Pérez-Madrid, A. **147A** (1987) 152

Schram, P.P.J.M., see Brouwer, H.H. **147A** (1988) 567
Sengers, J.V., see Nieuwoudt, J.C. **147A** (1987) 368
Simanjuntak, H. and Gunther, l., Non-stochastic Langevin equation and the arrow of time **147A** (1988) 487

Teitler, S., see Rajagopal, A.K. **147A** (1988) 627
Tuszyński, J.A. and Dixon, J.M., Interconfigurational interactions and tensor operator equivalents **147A** (1988) 544
Tuszyński, J.A. and Dixon, J.M., Comments on the origin of relativistic crystal fields **147A** (1988) 555

Valkering, T.P., see Van der Weele, J.P. **147A** (1988) 499

Van der Weele, J.P. and Capel, H.W., The $f(\alpha)$ formalism applied to the crossover from conservative to dissipative scaling behaviour in period doubling systems **147A** (1987) 297
Van der Weele, J.P., Capel, H.W., Valkering, T.P. and Post, T., The squeeze effect in non-integrable Hamiltonian systems **147A** (1988) 499
Van Hove, L., Negative binomial multiplicity distributions in continuous domains **147A** (1987) 19
Van Kampen, N.G., A set oscillators in a common bath **147A** (1987) 165
Van Leeuwen, J.M.J., see Dudek, M.R. **147A** (1987) 344
Van Saarloos, W., On the hydrodynamic radius of fractal aggregates **147A** (1987) 280
Van Velzen, G.A., see Ernst, M.H. **147A** (1987) 268
Vlieger, J., see Bobbert, P.A. **147A** (1987) 115

ANALYTIC SUBJECT INDEX

Aggregates, fractal
– On the hydrodynamic radius of fractal aggregates - van Saarloos **147A** (1987) 280
Aqueous solutions
– Some remarks on the dynamics of charged macromolecules in solution - Mandel **147A** (1987) 99

Beenakker–Mazur effect
– A local coupling between sedimentation and convection: application to the— - Nozières **147A** (1987) 219
Bimolecular chemical reactions, rapid
– Energy transport effects on rapid bimolecular chemical reactions - Keizer and Peacock-Lopez **147A** (1987) 61
Block spin transformation (see *Critical singularities*) **147A** (1987) 344
Brownian motion
– —and creeping flow on the Smoluchowski time scale - Felderhof **147A** (1987) 203
– The contribution of—to the viscosity of suspensions of spherical particles - Felderhof **147A** (1988) 533
Brownian motion, quantum
– Quantum Brownian motion - Oppenheim and Romero-Rochin **147A** (1987) 184
Brownian particle (see *Langevin equation, non-stochastic*) **147A** (1987) 487
Bursting soap film
– Bursting of a soap film in a viscous environment - Joanny and de Gennes **147A** (1987) 238

Cells, many-sided
– Two-dimensional soap froths and polycrystalline networks: Why are large cells many-sided? - Beenakker **147A** (1987) 256
Chain polymerization (see *Network formation, inhomogeneous*) **147A** (1987) 90
Colloidal suspensions
– Analogy between light scattering of—and neutron scattering of simple fluids - Cohen et al. **147A** (1987) 142
Convection (see *Sedimentation–convection coupling*) **147A** (1987) 219
Creeping flow
– Brownian motion and—on the Smoluchowski time scale - Felderhof **147A** (1987) 203
Critical singularities
– Convergence of finite size scaling analysis: Weak size dependence of renormalization transformations - Dudek et al. **147A** (1987) 344
Crossover, conservative to dissipative scaling
– The $f(a)$ formalism applied to the crossover from conservative to dissipative scaling behaviour in period doubling systems - van der Weele and Capel **147A** (1987) 297
Crystal fields, relativistic
– Comments on the origin of relativistic crystal fields - Tuszyński and Dixon **147A** (1988) 555

Density matrix (see *Particle occupation factors*) **147A** (1988) 627
Diffusion (see *Bimolecular chemical reactions, rapid*) **147A** (1988) 61

Diffusion (see *Macromolecules, charged*) **147A** (1988) 99
Diffusivity, frequency dependent (see *Fluid near critical point*) **147A** (1988) 368
Dipolar particle suspension
– Light scattering from a suspension in a fluid with spin - Pérez-Madrid and Rubí **147A** (1987) 152
Dipole approximation (see *Polarizability of a spheroid on a substrate*) **147A** (1987) 115
Dissipation in chemical systems
– Dissipation in steady states of chemical systems and deviations from minimum entropy production - Hunt et al. **147A** (1987) 48
Domain growth (see *Two-variable discrete model*) **147A** (1987) 77
Dynamic structure factor (see *Fluid with spin*) **147A** (1987) 152

Effective medium approximation (see *Lattice, bond disordered*) **147A** (1987) 268
Electrical conductivity (see *Plasma, fully ionized*) **147A** (1987) 567
Electro-thermodynamics, non-equilibrium
– Non-equilibrium electro-thermodynamics of polarizable multicomponent fluids with an interface - Albano and Bedeaux **147A** (1987) 407
Electron–electron interactions (see *Crystal fields, relativistic*) **147A** (1987) 555
Energy–density coupling (see *Bimolecular chemical reactions, rapid*) **147A** (1987) 61
Ethanol interface (see *Interface, liquid–vapor*) **147A** (1987) 387

f(a) formalism
– The—applied to the crossover from conservative to dissipative scaling behaviour in period doubling systems - van der Weele and Capel **147A** (1987) 297
Fluid near critical point
– Frequency dependence of transport properties of fluids near the critical point - Nieuwoudt and Sengers **147A** (1987) 368
Fluid with spin
– Light scattering from a suspension in a— - Pérez-Madrid and Rubí **147A** (1987) 152
Fluids, simple
– Analogy between light scattering of colloidal suspensions and neutron scattering of simple fluids - Cohen et al. **147A** (1987) 142
Fokker–Planck equation (see *Brownian motion, quantum*) **147A** (1987) 184
Fokker–Planck equation (see *Spherical particle suspension*) **147A** (1987) 203
Fractal structures (see *Aggregates, fractal*) **147A** (1987) 280

Gold on sapphire (see *Polarizability of a spheroid on a substrate*) **147A** (1987) 115

Hadron production
– Negative binomial multiplicity distributions in continuous domains - van Hove **147A** (1987) 19
Hamiltonian systems, non-integrable
– The squeeze effect in non-integrable Hamiltonian systems - van der Weele et al. **147A** (1988) 499
Harmonic chain, linear (see *Langevin equation, non-stochastic*) **147A** (1988) 487
Harmonic oscillators, coupled (see *Oscillator–bath interaction*) **147A** (1988) 165
Hénon map (see *Period doubling systems*) **147A** (1988) 297
High energy collisions (see *Hadron production*) **147A** (1988) 19
Hydrodynamic radius
– On the—of fractal aggregates - van Saarloos **147A** (1987) 280

Interconfigurational interactions (see *Tensor operator equivalents*) **147A** (1987) 544
Interface, liquid–vapor
– Light scattering from the liquid–vapor interface - Mazur and Chung **147A** (1987) 387

Interfacial region (see *Polarizable multicomponent fluids*) **147A** (1987) 407
Irreversibility, intrinsic
– Intrinsic irreversibility in quantum theory - Prigogine and Petrosky **147A** (1987) 33
Irreversibility (see *Langevin equation, non-stochastic*) **147A** (1987) 487

Kinetic gelation model
– Inhomogeneous network formation studied by the— - Boots **147A** (1987) 90
Kirkwood–Riseman approximation (see *Hydrodynamic radius*) **147A** (1987) 280
Klimontovich equation (see *Plasma, fully ionized*) **147A** (1987) 567

Lamb shift (see *Quantum theory*) **147A** (1987) 461
Langevin equation, non-stochastic
– Non-stochastic Langevin equation and the arrow of time - Simanjuntak and Gunther **147A** (1988) 487
Langevin equation (see *Oscillator–bath interaction*) **147A** (1988) 165
Langevin equation (see *Brownian motion, quantum*) **147A** (1988) 184
Lattice, bond disordered
– Long time dynamics close to a percolation threshold - Ernst et al. **147A** (1987) 268
Lenard–Balescu expansion (see *Plasma, fully ionized*) **147A** (1987) 567
Light-beating technique (see *Interface, liquid–vapor*) **147A** (1987) 387
Light scattering (see *Colloidal suspensions*) **147A** (1987) 142
Light scattering (see *Fluid with spin*) **147A** (1987) 152
Light scattering (see *Interface, liquid–vapor*) **147A** (1987) 387
Line width (see *Colloidal suspensions*) **147A** (1987) 142
Long time dynamics
– —close to a percolation threshold - Ernst et al. **147A** (1987) 268

Macromolecules, charged
– Some remarks on the dynamics of charged macromolecules in solution - Mandel **147A** (1987) 99
Many-sided large cells
– Two-dimensional soap froths and polycrystalline networks: Why are large cells many-sided? - Beenakker **147A** (1987) 256
Map, two-dimensional (see *Hamiltonian systems, non-integrable*) **147A** (1987) 499
Massive particles (see *Neutrino systems*) **147A** (1987) 1
Mean-square displacement (see *Random walks, obstructed*) **147A** (1987) 315
Methyl groups in liquids
– Theoretical description of the methyl group relaxation in liquids - Blicharska **147A** (1988) 601
Minimum entropy production
– Dissipation in steady states of chemical systems and deviations from— - Hunt et al. **147A** (1987) 48
Multiplicity distributions (see *Hadron production*) **147A** (1987) 19

Negative binomial distributions (see *Probability theory*) **147A** (1987) 19
Network formation, inhomogeneous
– Inhomogeneous network formation studied by the kinetic gelation model - Boots **147A** (1987) 90
Neutrino systems
– On the transport coefficients of systems containing neutrinos - de Groot **147A** (1987) 1
Neutron scattering (see *Fluids, simple*) **147A** (1987) 142
Non-integrable Hamiltonian systems
– The squeeze effect in non-integrable Hamiltonian systems - van der Weele et al. **147A** (1988) 499

Oil droplets (see *Oil–water emulsion*) **147A** (1988) 238

Oil–water emulsion
– Bursting of a soap film in a viscous environment - Joanny and de Gennes **147A** (1987) 238
Oscillator–bath interaction
– A set oscillators in a common bath - van Kampen **147A** (1987) 165

Particle occupation factors
– —without large number approximations - Rajagopal and Teitler **147A** (1988) 627
Percolation threshold
– Long time dynamics close to a— - Ernst et al. **147A** (1987) 268
Period doubling systems
– The $f(a)$ formalism applied to the crossover from conservative to dissipative scaling behaviour in— - van der Weele and Capel **147A** (1987) 297
Phase separation (see *Two-variable discrete model*) **147A** (1987) 77
Plasma, fully ionized
– Electrical conductivity of a fully ionized plasma at high frequencies - Brouwer and Schram **147A** (1988) 567
Poincaré's theorem
– —and unitary transformations for classical and quantum systems - Petrosky and Prigogine **147A** (1988) 439
Polarizability of a spheroid on a substrate
– The polarizability of a spheroidal particle on a substrate - Bobbert and Vlieger **147A** (1987) 115
Polarizable multicomponent fluids
– Non-equilibrium electro-thermodynamics of—with an interface - Albano and Bedeaux **147A** (1987) 407
Polycrystalline networks
– Two-dimensional soap froths and—: Why are large cells many-sided? - Beenakker **147A** (1987) 256
Polymerization (see *Network formation, inhomogeneous*) **147A** (1987) 90
Probability distribution (see *Random walks, obstructed*) **147A** (1987) 315
Probability theory
– Negative binomial multiplicity distributions in continuous domains - van Hove **147A** (1987) 19

Quantum systems
– Poincaré's theorem and unitary transformations for classical and— - Petrosky and Prigogine **147A** (1988) 439
Quantum theory
– Intrinsic irreversibility in— - Prigogine and Petrosky **147A** (1987) 33
– An alternative to— - Prigogine and Petrosky **147A** (1988) 461

Random walk (see *Lattice, bond disordered*) **147A** (1988) 268
Random walks, obstructed
– On two types of obstructed random walks - Kasteleyn **147A** (1987) 315
Rate constant, bimolecular (see *Bimolecular chemical reactions, rapid*) **147A** (1987) 61
Relaxation of methyl groups
– Theoretical description of the methyl group relaxation in liquids - Blicharska **147A** (1988) 601
Renormalization transformation (see *Critical singularities*) **147A** (1988) 344

Scaling analysis, finite size (see *Critical singularities*) **147A** (1988) 344
Sedimentation–convection coupling
– A local coupling between sedimentation and convection: application to the Beenakker–Mazur effect - Nozières **147A** (1987) 219
Shannon entropy (see *Particle occupation factors*) **147A** (1987) 627

Shape–size correlation (see *Many-sided large cells*) **147A** (1987) 256
Smoluchowski equation (see *Suspensions of spherical particles*) **147A** (1987) 533
Smoluchowski time scale (see *Spherical particle suspension*) **147A** (1987) 203
Soap froths, two-dimensional
– Two-dimensional soap froths and polycrystalline networks: Why are large cells many-sided? - Beenakker **147A** (1987) 256
Spherical particle suspension
– Brownian motion and creeping flow on the Smoluchowski time scale - Felderhof **147A** (1987) 203
Spin–lattice relaxation (see *Relaxation of methyl groups*) **147A** (1987) 601
Spin–spin relaxation (see *Relaxation of methyl groups*) **147A** (1987) 601
Squeeze effect (see *Hamiltonian systems, non-integrable*) **147A** (1987) 499
Steady states, near-equilibrium
– Dissipation in steady states of chemical systems and deviations from minimum entropy production - Hunt et al. **147A** (1987) 48
Superoperators (see *Quantum theory*) **147A** (1987) 461
Suspensions of spherical particles
– The contribution of Brownian motion to the viscosity of— - Felderhof **147A** (1988) 533

Tensor operator equivalents
– Interconfigurational interactions and— - Tuszyński and Dixon **147A** (1988) 544
Time direction (see *Langevin equation, non-stochastic*) **147A** (1988) 487
Transmittance (see *Polarizability of a spheroid on a substrate*) **147A** (1988) 115
Transport coefficients (see *Neutrino systems*) **147A** (1988) 1
Transport properties (see *Fluid near critical point*) **147A** (1988) 368
Two-variable discrete model
– Phase separation and growth in a— - Kapral et al. **147A** (1987) 77

Unitary transformations
– Poincaré's theorem and—for classical and quantum systems - Petrosky and Prigogine **147A** (1988) 439

Viscosity, frequency dependent (see *Fluid near critical point*) **147A** (1988) 368
Viscosity of suspensions
– The contribution of Brownian motion to the—of spherical particles - Felderhof **147A** (1988) 533

Water film (see *Oil–water emulsion*) **147A** (1988) 238
Water interface (see *Interface, liquid–vapor*) **147A** (1988) 387
Wigner functions (see *Brownian motion, quantum*) **147A** (1988) 184
Wilson's transformation (see *Critical singularities*) **147A** (1988) 344